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NOTICE OF ALLOWANCE AND FEE(S) DUE

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09/29/2008

DRINKER BIDDLE & REATH (DC) 1500 K STREET, N.W. SUITE 1100 WASHINGTON, DC 20005-1209

EXAMINER				
RODRIGUEZ, ARMANDO				
ART UNIT	PAPER NUMBER			

2828

DATE MAILED; 09/29/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/577,958	05/02/2006	Hirofumi Kan	46884-5473	5278

TITLE OF INVENTION: SEMICONDUCTOR LASER DEVICE AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further ndicated unless correcte naintenance fee notifica	ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees with condence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address a rate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(s	s) Transmittal. This rs, Each additional	certif paper	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, mus
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WASHINGTON	I, DC 20005-1209							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/577,958	05/02/2006		Hirofumi Kan				46884-5473	5278
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	12/29/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
RODRIGUEZ	, ARMANDO	2828	372-035000					
. Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE		data will appear on tl T a substitute for filing (B) RESIDENCE: (C	he pa g an a	tent. If an assigne ssignment. and STATE OR CO	OUNT	RY)	ocument has been filed fo
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Publication Fee (N	No small entity discount p		Payment by credit card. Form PTO-2038 is attached.					
Advance Order - 4	# of Copies		The Director is he overpayment, to I	reby Depos	authorized to charg it Account Number	ge the i	required fee(s), any det (enclose ar	ficiency, or credit any nextra copy of this form).
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.		_	-		Γ1ΤΥ status. See 37 CF	
OTE: The Issue Fee and terest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a regis	tered a	attorney or agent; or th	e assignee or other party is
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n application. Confiden ubmitting the completed us form and/or suggesti	tiality is governed by 35 application form to the tons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is depending upon the is Chief Information O	s esti indivi iffice:	mated to take 12 m dual case. Any cor - U.S. Patent a n d T	inutes nment Fraden	to complete, including s on the amount of time park Office, U.S. Depa	by the USPTO to process g gathering, preparing, an- ne you require to complet- utment of Commerce, P.O. for Patents, P.O. Box 1450

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1500 K STREET,	N.W.		ART UNIT	PAPER NUMBER
SUITE 1100 WASHINGTON, DC 20005-1209			2828 DATE MAILED: 09/29/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 455 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 455 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/577,958	KAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ARMANDO RODRIGUEZ	2828	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. This communication is responsive to			
2. ☑ The allowed claim(s) is/are <u>1-11</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm 	e been received. be been received in Application No cuments have been received in this application.	national stage application from the complying with the requirements	
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the deponent of the deponent sheet of the deponent of the deponent of the deponent sheet of the deponent of the depo	st be submitted. son's Patent Drawing Review (PTO-son's Patent Drawing Review (PTO-son's Patent Drawing Review (PTO-son's Patent Drawing to State of BIOLOGICAL MATERIAL nest be set to	948) attached Iffice action of Ings in the front (not the back) of I). The submitted of the back o	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3-5-08, 9-10-07, 9-27-06, 5-2-06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Pa 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e	

Notice of Allowability

Part of Paper No./Mail Date 20080923

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)



Application No.

DETAILED ACTION

Allowable Subject Matter

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance:

None of the searched prior arts alone or in combination discloses the claimed invention having the recited limitations including a heat sink having a main cooler unit formed by metal members, a fluid channel, a cooling region for positioning a semiconductor laser and a resin layer continuously coated onto the outer wall surface and inner wall surface, except on the cooling region, of the main cooler unit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2828

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ARMANDO RODRIGUEZ/ Primary Examiner Art Unit 2828

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